

**PROJECT:** Midnite Mine Remediation**REPORT NO:** 2021-05**OWNER:** Newmont/Dawn Mining**OPERATOR:** Newmont/Dawn Mining**SUMMARY OF WORK ACTIVITIES OR EVENTS FOR THIS REPORTING PERIOD:**

This weekly report provides a summary of Midnite Mine Site (Site) remediation action (RA) construction activities, quality assurance (CQA), quality control (CQC) and engineering activities for the period April 23 - 29, 2021. The Site activities discussed in this weekly report include, but are not limited to: Site Health, Safety, and Security; Community Liaison, Project Meetings, Regulatory Oversight, Site Visitors; Site Mobilization; RA Activities; Project Documentation; and Site Inspections.

The project SharePoint site includes the Project documentation discussed in this report. Access to the project SharePoint site is available at the following link: (b) (6)

**SITE HEALTH, SAFETY, AND SECURITY**

MIDNITE MINE HEALTH & SAFETY SUMMARY: Reporting Period April 23 - 29, 2021			
FIRST AID INJURY	0	PROPERTY DAMAGE	0
MEDICALLY TREATED INJURY	0	NEAR MISS INCIDENT	0
RESTRICTED WORK INJURY	0	RADIATION PROTECTION PLAN (RPP) – ISSUES REPORTED	0
LOST TIME INJURY	0		
Comments: Nothing of importance to report.			

**COMMUNITY LIAISON**

- Notification sent to Mr. Sherwood for BIA #55 road closure June 07 thru Nov. 5<sup>th</sup>, 2021
- STOI Council visit schedule for May 11, 10:00 a.m. to 12:00 p.m. Five members of the Tribal Council and the TERO Compliance Officer are scheduled to participate.
- Infectious Disease Plan updated and sent to STOI for approval.

**PROJECT MEETINGS, REGULATORY OVERSIGHT, AND SITE VISITORS****Weekly Progress Meeting:**

The following stakeholders attended the Weekly Construction Progress meeting via a conference call on Wednesday, 28 April 2021 at 10:00;

- EPA
- Spokane Tribe of Indians
- Jacobs
- Army Corps of Engineers (USACE)
- Dawn Mining Company (DMC)/Newmont
- WME
- AJAX
- Stantec

**Meeting Action Items:**

- EPA asked to receive a copy of the schedule for Pit 4 backfill that was shown during the meeting. Newmont submitted the schedule on 29 March.

#### EPA Plan/Document Approvals:

- There were no plan/document approvals this time period.

#### Regulatory Site Visit(s):

- Mark Fillius, USACE, was on Site on 23 APR.

## REMEDIAL WORK ACTIVITIES

#### Construction:

During the week of April 23 - 29, 2021, the following activities were conducted:

- Newmont excavated, hauled and placed low activity/low reactivity material from the west side of the South Waste Rock Pile (SWRP) and the Pit 4 Overburden Pile. Newmont placed these materials along the outside perimeter of the Pit 4 Waste Containment Area (WCA).
- Newmont excavated, hauled and placed high activity/high reactivity material from Protore Stockpile 4 into Pit 4. Newmont placed this material in the middle of the WCA in accordance with the design and specifications. Estimated quantities, based on load counts, are presented in Table 1.
- SLV Earthmovers added a second jaw crusher and continued crushing and screening material from the Hillside Waste Rock Pile (HSWRP) to produce Drain Gravel, Liner Bedding and Geomembrane Bedding Material. Newmont hauled these materials to stockpile locations designated in the 2021 Crushing and Stockpiling Work Plan (Stantec, 2021). Estimated quantities of materials produced are presented in Table 1.
- Collection of Quality Control samples from the crushing and screening operation continued with a sample of Drain Gravel submitted to Budinger and Associates for gradation analysis. Gradations from samples collected last week conform with project specifications.
- Stantec performed Method 9 visible emissions observations at the crushing and screening operation on the HSWRP on 30 APR. Visible emissions conformed with the requirements in the DCAQMP.
- Newmont plated the haul road between the Southwest Topsoil Stockpile and the New Topsoil Stockpile with gravel received from Highland Quarry.
- Northwest Linings continued liner repair activities in the South Pond. Representatives from CQC, CQA and Vikek Environmental observed liner repair activities. Newmont pumped water from 24 APR storm event from the east cell to the west cell.
- Hi-Tech Rockfall mobilized to site and began installing rockfall protection in Pit 3.
- Fogle Pump removed the vertical dewatering pump from the Pit 4 vertical risers.
- Stantec performed South Pond Embankment Stability inspection on 23 APR. The embankment remains stable and movement monitoring points remain within tolerance.

**Table 1 – 2021 Production Estimates**

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	Planned Production (yd³)	Estimated Volume¹ (yd³)	% of Planned	
Haulage to Pit 4							
SWRP	32,278	29,092	90%	132,674	160,272	121%	21%
Stockpile 4	0	29,792	--	202,000	147,644	73%	73%

Material	Reporting Period			Year-to-date			Annual % Complete
	Planned Production (yd <sup>3</sup> )	Estimated Volume <sup>1</sup> (yd <sup>3</sup> )	% of Planned	Planned Production (yd <sup>3</sup> )	Estimated Volume <sup>1</sup> (yd <sup>3</sup> )	% of Planned	
HSWRP	2,128	196	9%	8,512	2,408	28%	4%
Pit 4 Overburden	4,651	21,952	472%	23,256	42,812	184%	13%
Total	39,057	81,032	207%	366,442	353,136	96%	26%
<b>Aggregate Production</b>							
Drain Gravel	8,500	4,984	59%	42,500	16,184	38%	5%
Liner Bedding	0	756	--	8,610	756	9%	8%
Geomembrane Bedding	8,500	4,312	51%	42,500	17,304	41%	5%
Total	17,000	10,052	59%	93,610	34,244	37%	5%

1 - Truck load assumed to be 28 yd<sup>3</sup>

### Stormwater Pollution Prevention Plan (SWPPP)

- Stantec performed post storm event and weekly SWPPP inspection on 26 APR. Site received 0.62 inches of precipitation on 24 APR. No new BMPs or maintenance activities identified.

### Spill Prevention, Control, and Countermeasure Activities (SPCC)

- None.

### Equipment Mobilized/Demobilized and Material Delivered

The following equipment was mobilized to the Site during this reporting period.

- JLG Skytrak 10042 Telehandler
- Atlas XATS 400 JDB Air Compressor
- MultiQuip WT5C Water Trailer

The following equipment was demobilized from the Site during this reporting period.

- None.

All project owned non-road diesel equipment on Site is US-EPA Tier 4 compliant. On-site rental equipment and subsequent deliveries of rental equipment may be less than Tier 4 and will be assessed at the time of delivery.

### Materials:

The following material was delivered to the Site during this reporting period.

- High Country Fusion supplied HDPE pipe for effluent pipeline.
  - 8-in, DR-17 pipe: 6,3500 ft
  - 10-in, DR-17 pipe: 2,250 ft
- Highland Quarry delivered 9 loads of clean gravel for plating West Access Road from the Southwest Topsoil Pile to the West Gate.

## CONSTRUCTION QUALITY ASSURANCE

### Dust Control and Monitoring

Seven dust monitors operated on site at the locations and for the time intervals listed in Table 1 below. There was no exceedance of the TSP action level during this time-period.

**Table 2 - TSP Dust Monitoring Locations during reporting period April 23 - 29, 2021**

Monitor ID	Location Description	Start Date	Status						
			Fri	Sat	Sun	Mon	Tue	Wed	Thurs
ES-1 (stationary)	Midnite Mine Top of Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-2 (stationary)	Midnite Mine Southeast Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-3 (stationary)	Midnite Mine West Boundary	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-4 (roving)	Northeast Side of the SCSZ	04/16/21	D/N			D/N	D/N	D/N	D/N
ES-5 (roving)	Northeast of the Mid-SWRP	03/24/21	D/N			D/N	D/N	D/N	D/N
ES-6 (roving)	East of HSWRP above High Road	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-7 (roving)	Northeast of HSWRP at Pit 4	03/23/21	D/N			D/N	D/N	D/N	D/N
ES-8 (stationary)	Spare								
D=Day Shift (6:00 am to 4:30 pm) N=Night Shift (4:00 pm to 2:30 am) E=Environmental conditions (fog, smoke, pollen, heavy rain, etc.) – No Operation O=Off - Special Circumstances * Equipment malfunction (Battery/Power Supply or Other)									

### Project Documentation

Project CQA-CQC Field Acceptance Forms, Engineering Change Notices (ECNs), Design Clarification Notices (DCNs), Non-Compliance Notifications (NCNs), Requests for Information (RFIs), Submittals, and Other Items received during this time-period are shown in the table below:

#### CQA Documentation

CQC-CQA Field Acceptance Forms			
Acceptance No.	Title		CQC-CQA Issue Date
None			
Project DCNs			
DCN No.	Title	Submittal Date	EPA Response Date
None			
Project ECNs			
ECN No.	Title	Submittal Date	EPA Response Date
2021-01	Monitoring and Control of Phreatic Levels in the South Pond Embankment	3/19/2021	TBD – Contingent on Response to Comments
Notice of Non-Compliance			
NNC No. and Dates	Title/Description	CQA	CQA/EPA Response Date(s)
NNC 2020-01 11/5/2020	South Pond Emergency Spillway Grout	Close-out TBD	NNC 2020-01 Close-out <b>Pending</b>

	Grout Placement Tentatively Scheduled for 5/12/2021		<b>Completion of the Supplemental GCS at GCS-04</b>
<b>Project RFIs</b>			
<b>RFI No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
2021-01	Electrofusion of HDPE Pipe Joints	4/24/2021	CQA Acceptance 4/29/2021 <b>EPA - TBD</b>
2021-02	Noxious Weed Control	4/24/2021	CQA Acceptance 4/28/2021 <b>EPA Acceptance 4/28/2021</b>
2021-03	Wood Chips on SCSZ Clean Topsoil	4/24/2021	CQA Acceptance 4/26/2021 <b>EPA Acceptance 4/28/2021</b>
<b>Submittals</b>			
<b>Submittal No.</b>	<b>Title</b>	<b>CQC Submittal Date</b>	<b>CQA/EPA Response Date(s)</b>
01018-43	Total Station Calibration	4/22/2021	CQA Acceptance 4/26/2021 <b>EPA - TBD</b>
<b>Other Items</b>			
<b>Item</b>	<b>Title</b>	<b>Comments</b>	
Halme Construction Submittals	Effluent Pipeline Submittals 1. HC-02160-01.0 A-Jacks for Bank Stabilization 4/26/2021 2. HC-01575-01.1 Draft SPCC 4/26/2021 3. HC-02567-01.1 Contech Corrugated Culverts with Variance Memo (48") 4/26/2021 4. HC-02274-01.1 Geotextiles 4/27/2021 5. HC-01570-01.1 HCI Proposed Addendum to SWPPP 4/27/2021 6. HC-02140-01.1 Proposed Dewatering Plan 4/27/2021 7. HC-02140-01.2 Proposed Dewatering Plan – Bank Stabilization Methods 4/27/2021 8. HC-01551-01 Traffic Control Plan 4/28/2021	CQA – TBD <b>EPA - TBD</b>	
Winkler Construction	02273-03 GCS-04 Grout Mix Design	CQA – TBD <b>EPA - TBD</b>	

Copies of the updated CQA Logs are located on the project SharePoint site under the 2021 CQA Folder.

## Site Inspections

Details regarding the four-phase CQA observation/inspection process for each definable work feature are summarized below and are further detailed in the daily CQC/CQA reports that are available on the project SharePoint site.

## Preparatory Inspections / Meetings

Pre-Construction/Preparatory Meeting for the Replacement Grade Control Structure #4 (GCS-04) at the South Pond Spillway.

## Initial Phase Inspections

- HDPE Pipe Delivery for the Effluent Pipeline.

## Follow-up Phase and Ongoing Inspections

- Ongoing South Pond Liner Leak Investigation – East Cell inspections with respect to extrusion-welded patches and caps in the East Cell.

### Completion Inspections

- None

## THREE WEEK LOOKAHEAD SCHEDULE

A copy of the Three Week Lookahead Schedule is provided as Attachment A.

Report completed and submitted by:  <u>Andrew Liffing, P.E.</u> <u>Project Construction Director</u>
Attachments <ul style="list-style-type: none"><li>• Attachment A – Midnite Mine 3 Week Lookahead Schedule</li></ul>
Photos of pertinent items are provided below.





Figure 1 – Excavation and Hauling of Pit 4 Overburden.



Figure 2 – View of Pit 4 from the Pit 4 Overlook (taken on April 26, 2021).





Figure 3 – SLV Earthmovers crushing and screening operations at the HSWRP



Figure 4 – Drone view of SLV Crushing and Screening Operation.





Figure 5 – Rock plating the CSZ road with clean rock.



Figure 6 – NWL Crew Abrading and Extrusion Welding Patches onto the Primary Liner

**ATTACHMENT A**

**MIDNITE MINE THREE WEEK LOOKAHEAD SCHEDULE**

Activity ID	Activity Name	RD	% Complete	Start	Finish			Apr 25							May 02							May 09							May 16						
						Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr	Fri	Sat	Sun	Mon	Tue	Wed	Thr		
17. Excavation and placement of materials into Pit #4		149d		29-Mar-21 A	29-Apr-22																														
17-1130	Excavate and Haul Pit 4 Overburden Upper section	7d	98%	13-Apr-21 A	10-May-21																														
17-1240	Excavate and Haul SWRP (Middle Zone Mining -All Phase A) Pit#4	149d	30%	29-Mar-21 A	29-Apr-22																														
18. Complete Repair of South Pond		25d		09-Apr-21 A	04-Jun-21																														
18-1030	Install South Pond Piezometer	10d	0%	17-May-21	28-May-21																														
18-1040	Support South Pond Pumping Station construction Commision South P	25d	5%	23-Apr-21 A	04-Jun-21																														
18-1080	Repair leaks in the East Cell of the South Pond	6d	75%	21-Apr-21 A	07-May-21																														
18-1090	Pump water from West Cell into the East Cell	6d	0%	30-Apr-21 A	07-May-21																														
18-1100	Repair Leaks in the West Cell	6d	0%	10-May-21	17-May-21																														
18-1140	Construct Grade Control Structure #4a	9d	90%	09-Apr-21 A	12-May-21																														
20. Haul and place Cover material over the Pit#4 WCA		165d		29-Mar-21 A	23-May-22																														
20-1050	Haul Crushing and Screening Rejects Material to Pit#4	160d	4%	29-Mar-21 A	16-May-22																														
20-1060	Produce Geomembrane Bedding for Pit#4	160d	5%	29-Mar-21 A	16-May-22																														
20-1070	Haul Geomembrane Bedding to Stockpiles for Pit#4 Cap	165d	5%	29-Mar-21 A	23-May-22																														
26. Construct the new WTP and Pipeline for discharge		20d		30-Apr-21	27-May-21																														
26-1260	Haul Topsoil from Southwest Topsoil Stockpile to the New Topsoil Stockpile	20d	0%	30-Apr-21	27-May-21																														
27. Produce drain rock and other materials necessary for the sub-waste liner syst		265d		29-Mar-21 A	17-May-22																														
27-1000	Produce Drain Gravel for Pit 3	161d	5%	29-Mar-21 A	17-May-22																														
27-1030	Haul Drain Gravel, Stockpile (301k cy)	161d	5%	29-Mar-21 A	17-May-22																														
27-1046	Move Waste Stockpile 3 (to make room for Drain Gravel)	5d	0%	30-Apr-21	06-May-21																														
27-1060	Produce Liner Bedding for Pit 3	20d	8%	28-Apr-21 A	27-May-21																														
27-1070	Haul Liner bedding to Stockpile for Pit 3 (15,000 cy)	20d	8%	28-Apr-21 A	27-May-21																														
28. Initiate construct of the Pit#3 sump including initial construction of underdrain		50d		03-May-21	13-Jul-21																														
28-1250	Install rock fall protection	50d	0%	03-May-21	13-Jul-21																														